

***MS4 Monitoring, Evaluation, Tracking,  
and Reporting: Learning from  
Experience to Improve Local Capacity  
and Permitting Approaches***

**Key Findings and Recommendations**

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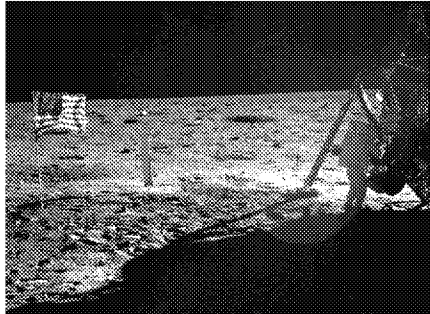
## Overview

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- What did we accomplish?
- What are the outcomes?
- What's next?

## What did we accomplish?

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## What are the outcomes?

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- Agreement that change could be good
- Built support to pursue thoughtful change
- Developed series of recommendations
- Recommendations
  - Capacity Building and Program Support
  - Permitting
  - Making Monitoring Inform Program Management
  - Improving Our Ability to Quantify Effectiveness
  - Improving Program Tracking and Reporting

## Recommendations

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### Capacity Building & Program Support

- Develop a vision for the future
- Develop a guide for improvement
- Establish key performance metrics
- Identify ways to leverage existing data

### Making Monitoring Inform Management

- Evaluate appropriate scale
- Convene session on deploying sensors

## Recommendations

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### Improve Ability to Quantify Effectiveness

- Document state of knowledge on BMP effectiveness
- Improve usefulness of modeling with better performance data
- Evaluate methods to account for source control

### Improve Program Tracking and Reporting

- Identify approach for performance metrics to guide efforts
- Determine the most effective reporting mechanisms and formats

## Permitting Recommendations

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- Improve clarity of monitoring and effectiveness Permit requirements (including objectives, methods, and designs)
- Create a pathway in permits to make special studies more impactful
- Evaluate whether lack of 40 CFR Part 136 approval presents a barrier to water quality sampling and analysis technology implementation

## What's Next?

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- What did we miss?
- What should we focus on moving forward?
- How much flexibility is appropriate given  
Regulator and Permittee resources, experience  
and expertise?